

BL1102 Biology 2

(BL1102 online module handbook version 217)

Credits: 20

Semester: 2

Module Organiser

Dr Iain Matthews

imm7@st-andrews.ac.uk

01334 463004

Pre-requisite Modules:

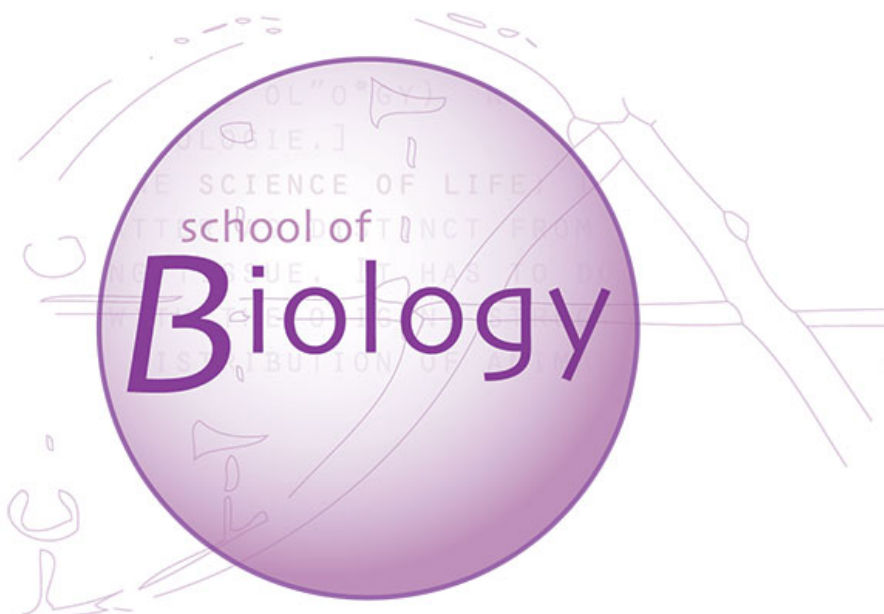
Anti-requisite Modules:

Post-requisite Modules:

Additional Module

Information:

[Please check MMS regularly for additional module information](#)



This module provides an introduction to the diversity of life on Earth and will address key elements of organismal and ecological aspects of life. The module is divided into several sections beginning with the classification of life and an introduction to the kingdoms Monera, Fungi and Protista. Photosynthesis, respiration and the evolution and diversity of plants will be studied. Students will then look at the diversity of animals in the sea and the movement of some groups onto land. The module will also provide an introduction to animal behaviour and developmental biology, before finishing off by introducing ecology and the various factors promoting and threatening biodiversity. Throughout the module the lecture material is complemented by extensive practical classes introducing a variety of fieldwork and laboratory techniques.

[BL1102View content for BL1102 \(2023/4\) in the Module Management System \(MMS\)](#)

[View the current Biology Online Module Catalogue for BL1102](#)

[BL1102View BL1102 \(2023/4\) in the University of St Andrews Module Catalogue](#)

Contents:

- Cover
- Contents
- Timetable
- Reading List
- Assessment
- Who To Ask
- Contributing Staff
- Learning Outcomes
- Acquired Skills
- Policies

BL1102: Timetable

Legend (not all modules have every event type):

lecture	tutorial	workshop	practical	other
---------	----------	----------	-----------	-------

Semester 2: Week 1

DATE & TIME	VENUE	STAFF	EVENT
Monday 15-01-2024 10:00 to 11:00	Physics Building Lecture Theatre A	Dr Iain Matthews -	Lecture L1: Introduction to module <small>2023-4_BL1102_L1</small>
Tuesday 16-01-2024 10:00 to 11:00	Physics Building Lecture Theatre A	Dr David Shuker -	Lecture L2: Evolution I: Principles and processes of evolutionary biology <small>2023-4_BL1102_L2</small>
Wednesday 17-01-2024 10:00 to 11:00	Physics Building Lecture Theatre A	Dr David Shuker -	Lecture L3: Evolution II: Evolution in the lab and the field <small>2023-4_BL1102_L3</small>
Thursday 18-01-2024 10:00 to 11:00	Physics Building Lecture Theatre A	Dr David Shuker -	Lecture L4: Evolution III: Sexual selection <small>2023-4_BL1102_L4</small>
Friday 19-01-2024 10:00 to 11:00	Physics Building Lecture Theatre A	Dr David Shuker -	Lecture L5: Evolution IV: Speciation and the evolution of biodiversity <small>2023-4_BL1102_L5</small>

Semester 2: Week 2

DATE & TIME	VENUE	STAFF	EVENT
Monday 22-01-2024 10:00 to 11:00	Physics Building Lecture Theatre A	Prof Dave Ferrier -	Lecture L6: Developmental Biology: Introduction <small>2023-4_BL1102_L6</small>
Monday 22-01-2024 14:00 to 16:00	Medical and Biological Sciences Building 1st year teaching laboratory	Dr Iain Matthews -	Practical P1: Mammalian skulls <small>2023-4_BL1102_P1</small>
Monday 22-01-2024 16:00 to 17:00	Medical and Biological Sciences Building 1st year teaching laboratory	Dr Susan Gurney -	Tutorial T1: Tutorial 1: Note taking <small>2023-4_BL1102_T1</small> This tutorial will encourage you to consider how you take notes during a module, and how your notes can help you prepare for exams at the end of a module. Taking notes from a recorded lecture can be very different to a live, in-person lecture, and processing the notes that you have prepared for exams is a key skill to practise or relearn. As note-taking styles can be highly variable and personally unique, this tutorial will be used to showcase the variety of note-taking formats you may wish to consider. You are not required to prepare anything in advance, and any material provided in the class will also be available on the BL1102 Moodle.
Tuesday 23-01-2024 10:00 to 11:00	Physics Building Lecture Theatre A	Prof Dave Ferrier -	Lecture L7: Developmental Biology: Human Development <small>2023-4_BL1102_L7</small>
Tuesday 23-01-2024 14:00 to 16:00	Medical and Biological Sciences Building 1st year teaching laboratory	Dr Iain Matthews -	Practical P2: Mammalian skulls <small>2023-4_BL1102_P2</small>

Tuesday 23-01-2024 16:00 to 17:00	Medical and Biological Sciences Building 1st year teaching laboratory	Dr Susan Gurney -	Tutorial T2: Tutorial 1: Note taking <small>2023-4_BL1102_T2</small> This tutorial will encourage you to consider how you take notes during a module, and how your notes can help you prepare for exams at the end of a module. Taking notes from a recorded lecture can be very different to a live, in-person lecture, and processing the notes that you have prepared for exams is a key skill to practise or relearn. As note-taking styles can be highly variable and personally unique, this tutorial will be used to showcase the variety of note-taking formats you may wish to consider. You are not required to prepare anything in advance, and any material provided in the class will also be available on the BL1102 Moodle.
Wednesday 24-01-2024 10:00 to 11:00	Physics Building Lecture Theatre A	Prof Dave Ferrier -	Lecture L8: Developmental Biology: General Principles I <small>2023-4_BL1102_L8</small>
Wednesday 24-01-2024 14:00 to 16:00	Medical and Biological Sciences Building 1st year teaching laboratory	Dr Iain Matthews -	Practical P3: Mammalian skulls <small>2023-4_BL1102_P3</small>
Wednesday 24-01-2024 16:00 to 17:00	Medical and Biological Sciences Building 1st year teaching laboratory	Dr Susan Gurney -	Tutorial T3: Tutorial 1: Note taking <small>2023-4_BL1102_T3</small> This tutorial will encourage you to consider how you take notes during a module, and how your notes can help you prepare for exams at the end of a module. Taking notes from a recorded lecture can be very different to a live, in-person lecture, and processing the notes that you have prepared for exams is a key skill to practise or relearn. As note-taking styles can be highly variable and personally unique, this tutorial will be used to showcase the variety of note-taking formats you may wish to consider. You are not required to prepare anything in advance, and any material provided in the class will also be available on the BL1102 Moodle.
Thursday 25-01-2024 10:00 to 11:00	Physics Building Lecture Theatre A	Prof Dave Ferrier -	Lecture L9: Developmental Biology: General Principles II <small>2023-4_BL1102_L9</small>
Friday 26-01-2024 10:00 to 11:00	Physics Building Lecture Theatre A	Prof Dave Ferrier -	Lecture L10: Developmental Biology: General Principles III <small>2023-4_BL1102_L10</small>

Semester 2: Week 3

DATE & TIME	VENUE	STAFF	EVENT
Monday 29-01-2024 10:00 to 11:00	Physics Building Lecture Theatre A	Prof Dave Ferrier -	Lecture L11: Evolutionary Developmental Biology I <small>2023-4_BL1102_L11</small>
Monday 29-01-2024 14:00 to 16:00	Medical and Biological Sciences Building 1st year teaching laboratory	Prof Andy Gardner -	Practical P4: A Physical Simulation of Natural Selection <small>2023-4_BL1102_P4</small>
Monday 29-01-2024 16:00 to 17:00	Medical and Biological Sciences Building 1st year teaching laboratory	Dr Susan Gurney -	Tutorial T4: Tutorial 2: Paper reading <small>2023-4_BL1102_T4</small> You need to develop strategies for reading and understanding scientific papers. When preparing an assignment, do you have to read and understand the entire paper? Are all sections equally relevant for the assignment? The purpose of this tutorial is to familiarise you with the structure of a research paper and to discuss how a paper can be used for an assignment.
Tuesday 30-01-2024 10:00 to 11:00	Physics Building Lecture Theatre A	Prof Dave Ferrier -	Lecture L12: Evolutionary Developmental Biology II <small>2023-4_BL1102_L12</small>

Tuesday 30-01-2024 14:00 to 16:00	Medical and Biological Sciences Building 1st year teaching laboratory	Prof Andy Gardner -	Practical P5: A Physical Simulation of Natural Selection 2023-4_BL1102_P5
Tuesday 30-01-2024 16:00 to 17:00	Medical and Biological Sciences Building 1st year teaching laboratory	Dr Susan Gurney -	Tutorial T5: Tutorial 2: Paper reading 2023-4_BL1102_T5 You need to develop strategies for reading and understanding scientific papers. When preparing an assignment, do you have to read and understand the entire paper? Are all sections equally relevant for the assignment? The purpose of this tutorial is to familiarise you with the structure of a research paper and to discuss how a paper can be used for an assignment.
Wednesday 31-01-2024 10:00 to 11:00	Physics Building Lecture Theatre A	Dr Iain Matthews -	Lecture L13: Mass Extinctions 2023-4_BL1102_L13
Wednesday 31-01-2024 14:00 to 16:00	Medical and Biological Sciences Building 1st year teaching laboratory	Prof Andy Gardner -	Practical P6: A Physical Simulation of Natural Selection 2023-4_BL1102_P6
Wednesday 31-01-2024 16:00 to 17:00	Medical and Biological Sciences Building 1st year teaching laboratory	Dr Susan Gurney -	Tutorial T6: Tutorial 2: Paper reading 2023-4_BL1102_T6 You need to develop strategies for reading and understanding scientific papers. When preparing an assignment, do you have to read and understand the entire paper? Are all sections equally relevant for the assignment? The purpose of this tutorial is to familiarise you with the structure of a research paper and to discuss how a paper can be used for an assignment.
Thursday 01-02-2024 10:00 to 11:00	Physics Building Lecture Theatre A	Dr Iain Matthews -	Lecture L14: The End-Permian Extinction Event 2023-4_BL1102_L14
Friday 02-02-2024 10:00 to 11:00	Physics Building Lecture Theatre A	Dr Iain Matthews -	Lecture L15: Animal diversity 2023-4_BL1102_L15

Semester 2: Week 4

DATE & TIME	VENUE	STAFF	EVENT
Monday 05-02-2024 10:00 to 11:00	Physics Building Lecture Theatre A	Dr Iain Matthews -	Lecture L16: Life on Land 2023-4_BL1102_L16
Monday 05-02-2024 14:00 to 17:00	Medical and Biological Sciences Building 1st year teaching laboratory	Prof Dave Ferrier -	Practical P7: Chick embryo dissection 2023-4_BL1102_P7
Tuesday 06-02-2024 10:00 to 11:00	Physics Building Lecture Theatre A	Dr Iain Matthews -	Lecture L17: Invertebrates I 2023-4_BL1102_L17
Tuesday 06-02-2024 14:00 to 17:00	Medical and Biological Sciences Building 1st year teaching laboratory	Prof Dave Ferrier -	Practical P8: Chick embryo dissection 2023-4_BL1102_P8
Wednesday 07-02-2024 10:00 to 11:00	Physics Building Lecture Theatre A	Dr Iain Matthews -	Lecture L18: Invertebrates II 2023-4_BL1102_L18
Wednesday 07-02-2024 14:00 to 17:00	Medical and Biological Sciences Building 1st year teaching laboratory	Prof Dave Ferrier -	Practical P9: Chick embryo dissection 2023-4_BL1102_P9
Thursday 08-02-2024 10:00 to 11:00	Physics Building Lecture Theatre A	Dr Iain Matthews -	Lecture L19: Vertebrates I 2023-4_BL1102_L19
Friday 09-02-2024 10:00 to 11:00	Chemistry Lecture Theatre A	Dr Iain Matthews -	Lecture L20: Vertebrates II 2023-4_BL1102_L20

Semester 2: Week 5

DATE & TIME	VENUE	STAFF	EVENT
Monday 12-02-2024 10:00 to 11:00	Physics Building Lecture Theatre A	Dr Gareth Miles -	Lecture L21: Neurobiology I <small>2023-4_BL1102_L21</small>
Tuesday 13-02-2024 10:00 to 11:00	Physics Building Lecture Theatre A	Dr Gareth Miles -	Lecture L22: Neurobiology II <small>2023-4_BL1102_L22</small>
Wednesday 14-02-2024 10:00 to 11:00	Chemistry Lecture Theatre A	Dr Gareth Miles -	Lecture L23: Neurobiology III <small>2023-4_BL1102_L23</small>
Thursday 15-02-2024 10:00 to 11:00	Physics Building Lecture Theatre A	Dr Gareth Miles -	Lecture L24: Neurobiology IV <small>2023-4_BL1102_L24</small>
Friday 16-02-2024 10:00 to 11:00	Physics Building Lecture Theatre A	Dr Gareth Miles -	Lecture L25: Neurobiology V <small>2023-4_BL1102_L25</small>

Semester 2: Week 6

DATE & TIME	VENUE	STAFF	EVENT
Monday 19-02-2024 10:00 to 11:00	Physics Building Lecture Theatre A	Prof Susan Healy -	Lecture L26: Introduction to animal behaviour <small>2023-4_BL1102_L26</small>
Monday 19-02-2024 14:00 to 17:00	Medical and Biological Sciences Building 1st year teaching laboratory	Dr Michael Morrissey -	Practical P10: Data Handling and Manipulation I <small>2023-4_BL1102_P10</small>
Tuesday 20-02-2024 10:00 to 11:00	Physics Building Lecture Theatre A	Prof Susan Healy -	Lecture L27: Growing up <small>2023-4_BL1102_L27</small>
Tuesday 20-02-2024 14:00 to 17:00	Medical and Biological Sciences Building 1st year teaching laboratory	Dr Michael Morrissey -	Practical P11: Data Handling and Manipulation I <small>2023-4_BL1102_P11</small>
Wednesday 21-02-2024 10:00 to 11:00	Physics Building Lecture Theatre A	Prof Susan Healy -	Lecture L28: Finding dinner <small>2023-4_BL1102_L28</small>
Wednesday 21-02-2024 14:00 to 17:00	Medical and Biological Sciences Building 1st year teaching laboratory	Dr Michael Morrissey -	Practical P12: Data Handling and Manipulation I <small>2023-4_BL1102_P12</small>
Thursday 22-02-2024 10:00 to 11:00	Physics Building Lecture Theatre A	Prof Susan Healy -	Lecture L29: Sex and having babies <small>2023-4_BL1102_L29</small>
Friday 23-02-2024 10:00 to 11:00	Physics Building Lecture Theatre A	Dr Iain Matthews -	Lecture L30: Reproduction <small>2023-4_BL1102_L30</small>

Spring Break: 26-Feb-2024 to 01-Mar-2024

Semester 2: Week 7

DATE & TIME	VENUE	STAFF	EVENT
Monday 04-03-2024 10:00 to 11:00	Physics Building Lecture Theatre A	Prof Graeme Ruxton -	Lecture L31: Scaling I <small>2023-4_BL1102_L31</small>
Monday 04-03-2024 14:00 to 17:00	Medical and Biological Sciences Building 1st year teaching laboratory	Dr Michael Morrissey -	Practical P13: Data handling and manipulation II <small>2023-4_BL1102_P13</small>
Tuesday 05-03-2024 10:00 to 11:00	Physics Building Lecture Theatre A	Prof Graeme Ruxton -	Lecture L32: Scaling II <small>2023-4_BL1102_L32</small>
Tuesday 05-03-2024 14:00 to 17:00	Medical and Biological Sciences Building 1st year teaching laboratory	Dr Michael Morrissey -	Practical P14: Data handling and manipulation II <small>2023-4_BL1102_P14</small>

Wednesday 06-03-2024 10:00 to 11:00	Physics Building Lecture Theatre A	Prof Graeme Ruxton -	Lecture L33: Thermoregulation I 2023-4_BL1102_L33
Wednesday 06-03-2024 14:00 to 17:00	Medical and Biological Sciences Building 1st year teaching laboratory	Dr Michael Morrissey -	Practical P15: Data handling and manipulation II 2023-4_BL1102_P15
Thursday 07-03-2024 10:00 to 11:00	Physics Building Lecture Theatre A	Prof Graeme Ruxton -	Lecture L34: Thermoregulation II 2023-4_BL1102_L34
Friday 08-03-2024 10:00 to 11:00	Physics Building Lecture Theatre A	Prof Graeme Ruxton -	Lecture L35: Feeding the Growing Human Population 2023-4_BL1102_L35

Semester 2: Week 8

DATE & TIME	VENUE	STAFF	EVENT
Monday 11-03-2024 10:00 to 11:00	Physics Building Lecture Theatre A	Prof Graeme Ruxton -	Lecture L36: Fungi 2023-4_BL1102_L36
Monday 11-03-2024 14:00 to 16:00	Medical and Biological Sciences Building 1st year teaching laboratory	Dr Iain Matthews -	Practical P16: Semen analysis 2023-4_BL1102_P16
Monday 11-03-2024 16:00 to 17:00	Medical and Biological Sciences Building 1st year teaching laboratory	Dr Susan Gurney -	Tutorial T7: Tutorial 3: Reading more widely 2023-4_BL1102_T7 It is vital that you can efficiently find and identify reliable sources of information. Internet trawls can be hugely time-consuming, and online information might be misleading or incorrect. In Pre-Honours, you mainly need to access scientific literature to build understanding relevant to an essay or the introduction and discussion of a lab report. At Honours level, more emphasis will be placed on critical evaluation, which requires knowledge of previously published evidence and arguments. The purpose of this tutorial is to equip you with the knowledge and skills to find and assess scientific information.
Tuesday 12-03-2024 10:00 to 11:00	Physics Building Lecture Theatre A	Prof Graeme Ruxton -	Lecture L37: Plant structure & growth 2023-4_BL1102_L37
Tuesday 12-03-2024 14:00 to 16:00	Medical and Biological Sciences Building 1st year teaching laboratory	Dr Iain Matthews -	Practical P17: Semen analysis 2023-4_BL1102_P17
Tuesday 12-03-2024 16:00 to 17:00	Medical and Biological Sciences Building 1st year teaching laboratory	Dr Susan Gurney -	Tutorial T8: Tutorial 3: Reading more widely 2023-4_BL1102_T8 It is vital that you can efficiently find and identify reliable sources of information. Internet trawls can be hugely time-consuming, and online information might be misleading or incorrect. In Pre-Honours, you mainly need to access scientific literature to build understanding relevant to an essay or the introduction and discussion of a lab report. At Honours level, more emphasis will be placed on critical evaluation, which requires knowledge of previously published evidence and arguments. The purpose of this tutorial is to equip you with the knowledge and skills to find and assess scientific information.
Wednesday 13-03-2024 10:00 to 11:00	Physics Building Lecture Theatre A	Prof Graeme Ruxton -	Lecture L38: Transport in vascular plants 2023-4_BL1102_L38

Wednesday 13-03-2024 14:00 to 16:00	Medical and Biological Sciences Building 1st year teaching laboratory	Dr Iain Matthews -	Practical P18: Semen analysis 2023-4_BL1102_P18
Wednesday 13-03-2024 16:00 to 17:00	Medical and Biological Sciences Building 1st year teaching laboratory	Dr Susan Gurney -	Tutorial T9: Tutorial 3: Reading more widely 2023-4_BL1102_T9 It is vital that you can efficiently find and identify reliable sources of information. Internet trawls can be hugely time-consuming, and online information might be misleading or incorrect. In Pre-Honours, you mainly need to access scientific literature to build understanding relevant to an essay or the introduction and discussion of a lab report. At Honours level, more emphasis will be placed on critical evaluation, which requires knowledge of previously published evidence and arguments. The purpose of this tutorial is to equip you with the knowledge and skills to find and assess scientific information.
Thursday 14-03-2024 10:00 to 11:00	Physics Building Lecture Theatre A	Prof Graeme Ruxton -	Lecture L39: Plant nutrition 2023-4_BL1102_L39
Friday 15-03-2024 10:00 to 11:00	Physics Building	-	Lecture L40: To be confirmed 2023-4_BL1102_L40

Semester 2: Week 9

DATE & TIME	VENUE	STAFF	EVENT
Monday 18-03-2024 10:00 to 11:00	Physics Building Lecture Theatre A	Prof Graeme Ruxton -	Lecture L41: Reproduction in flowering plants 2023-4_BL1102_L41
Monday 18-03-2024 14:00 to 17:00	Offsite In-person practical	Dr Iain Matthews -	Practical P19: Botanic Gardens Practical 2023-4_BL1102_P19
Tuesday 19-03-2024 10:00 to 11:00	Physics Building Lecture Theatre A	Prof Graeme Ruxton -	Lecture L42: Plant signals & behaviour 2023-4_BL1102_L42
Tuesday 19-03-2024 14:00 to 17:00	Offsite In-person practical	Dr Iain Matthews -	Practical P20: Botanic Gardens Practical 2023-4_BL1102_P20
Wednesday 20-03-2024 10:00 to 11:00	Physics Building Lecture Theatre A	-	Lecture L43: No Lecture 2023-4_BL1102_L43
Wednesday 20-03-2024 14:00 to 17:00	Offsite In-person practical	Dr Iain Matthews -	Practical P21: Botanic Gardens Practical 2023-4_BL1102_P21
Thursday 21-03-2024 10:00 to 11:00	Physics Building Lecture Theatre A	Dr Iain Matthews -	Lecture L44: The Protists 2023-4_BL1102_L44
Friday 22-03-2024 10:00 to 11:00	Physics Building Lecture Theatre A	Dr Iain Matthews -	Lecture L45: Algae and Rocky Shore Ecology 2023-4_BL1102_L45

Semester 2: Week 10

DATE & TIME	VENUE	STAFF	EVENT
Monday 25-03-2024 10:00 to 11:00	Physics Building Lecture Theatre A	Dr Miguel Barbosa -	Lecture L46: Ecology I 2023-4_BL1102_L46
Monday 25-03-2024 14:00 to 16:00	Medical and Biological Sciences Building 1st year teaching laboratory	Dr Iain Matthews -	Practical P22: Nephrops dissection 2023-4_BL1102_P22

Monday 25-03-2024 16:00 to 17:00	Medical and Biological Sciences Building 1st year teaching laboratory	Dr Susan Gurney -	Tutorial T10: Tutorial 4: Self reflection <small>2023-4_BL1102_T10</small> Being encouraged to reflect on your experiences and performance over your first year will allow you to identify your strengths and weaknesses. This tutorial will give you the opportunity to set goals, identify resources and plan your approach to learning as you prepare for your 2000-level modules. Although this tutorial will focus on your experiences over the past year, you will be shown how you can conduct self-reflection exercises throughout the semester. For example, self-reflection after each lab supports the development of scientific thinking by prompting you to think critically, through protocols and training, as you troubleshoot problems.
Tuesday 26-03-2024 10:00 to 11:00	Physics Building Lecture Theatre A	Dr Miguel Barbosa -	Lecture L47: Ecology II <small>2023-4_BL1102_L47</small>
Tuesday 26-03-2024 14:00 to 16:00	Medical and Biological Sciences Building 1st year teaching laboratory	Dr Iain Matthews -	Practical P23: Nephrops dissection <small>2023-4_BL1102_P23</small>
Tuesday 26-03-2024 16:00 to 17:00	Medical and Biological Sciences Building 1st year teaching laboratory	Dr Susan Gurney -	Tutorial T11: Tutorial 4: Self reflection <small>2023-4_BL1102_T11</small> Being encouraged to reflect on your experiences and performance over your first year will allow you to identify your strengths and weaknesses. This tutorial will give you the opportunity to set goals, identify resources and plan your approach to learning as you prepare for your 2000-level modules. Although this tutorial will focus on your experiences over the past year, you will be shown how you can conduct self-reflection exercises throughout the semester. For example, self-reflection after each lab supports the development of scientific thinking by prompting you to think critically, through protocols and training, as you troubleshoot problems.
Wednesday 27-03-2024 10:00 to 11:00	Physics Building Lecture Theatre A	Dr Miguel Barbosa -	Lecture L48: Ecology III <small>2023-4_BL1102_L48</small>
Wednesday 27-03-2024 14:00 to 16:00	Medical and Biological Sciences Building 1st year teaching laboratory	Dr Iain Matthews -	Practical P24: Nephrops dissection <small>2023-4_BL1102_P24</small>
Wednesday 27-03-2024 16:00 to 17:00	Medical and Biological Sciences Building 1st year teaching laboratory	Dr Susan Gurney -	Tutorial T12: Tutorial 4: Self reflection <small>2023-4_BL1102_T12</small> Being encouraged to reflect on your experiences and performance over your first year will allow you to identify your strengths and weaknesses. This tutorial will give you the opportunity to set goals, identify resources and plan your approach to learning as you prepare for your 2000-level modules. Although this tutorial will focus on your experiences over the past year, you will be shown how you can conduct self-reflection exercises throughout the semester. For example, self-reflection after each lab supports the development of scientific thinking by prompting you to think critically, through protocols and training, as you troubleshoot problems.
Thursday 28-03-2024 10:00 to 11:00	Physics Building Lecture Theatre A	Dr Miguel Barbosa -	Lecture L49: Ecology IV <small>2023-4_BL1102_L49</small>

Friday 29-03-2024 10:00 to 11:00	Physics Building Lecture Theatre A	Dr Miguel Barbosa -	Lecture L50: Ecology V <small>2023-4_BL1102_L50</small>
--	---------------------------------------	--	---

Semester 2: Week 11

DATE & TIME	VENUE	STAFF	EVENT
Monday 01-04-2024 14:00 to 17:00	Offsite In-person practical	Dr Iain Matthews -	Practical P25: Rocky Shore <small>2023-4_BL1102_P25</small>
Tuesday 02-04-2024 14:00 to 17:00	Offsite In-person practical	Dr Iain Matthews -	Practical P26: Rocky Shore <small>2023-4_BL1102_P26</small>
Wednesday 03-04-2024 14:00 to 17:00	Offsite In-person practical	Dr Iain Matthews -	Practical P27: Rocky Shore <small>2023-4_BL1102_P27</small>
Thursday 04-04-2024 14:00 to 15:00	Biomedical Sciences Building Online	Dr Iain Matthews -	Other O1: End of module MCQ <small>2023-4_BL1102_O1</small>

BL1102: Reading List

[BL1102Click for BL1102 reading list](#)

BL1102: Assessment

Coursework = 100%.

[BL1102View coursework assessment details for BL1102 \(2023/4\) in MMS](#)

The following related information applies to all Biology modules:

School of Biology Marking Criteria:	See JH booklet info (st-andrews.ac.uk)
Late submission of continuous assessment work:	All late submissions of coursework that do not require electronic submission should be made via the Biology Teaching Office, Level 2, BMS Building, North Haugh.
Exam details:	See School of Biology UG Handbook JH booklet info (st-andrews.ac.uk) : All Biology exams will be conducted online for 2022-23.
Exam timetable:	See Timetables - Exams - University of St Andrews (st-andrews.ac.uk)
Expected attendance:	See JH booklet info (st-andrews.ac.uk) for detailed attendance requirements.
Good Academic Practice & Avoiding Academic Misconduct:	See JH booklet info (st-andrews.ac.uk)
University Student Handbook:	University Student Handbook
School and University regulations in the School and University Undergraduate Handbook relating to absence reporting, penalties and rules for late submission of work, extensions for coursework, return of coursework, S-coding, good academic practice and Academic Alerts.:	JH booklet info (st-andrews.ac.uk) University Student Handbook

Who to ask

(Information in this section applies to all Biology Modules)

Before contacting staff, students should check the content of the Biology Undergraduate Handbook, the module handbook and specific task instructions.

Questions about

General teaching matters
Rescheduled or cancelled events
Lecture or practical content
Completing assessed practical assignments
Completing assessments
Marking on continuous assessment
Marking on exams
Rearranging practical days
Absence and/or extensions
Difficulties with academic progress which impact more than one module:
Overall performance, progress or future directions:
Disability:
For advice and support on any issue e.g. academic, financial, international, personal or health matters, or if you are unsure of who to go to for help:

University assistance with urgent matters out of office hours:

Contact

Biology Teaching Office (bioteach@st-andrews.ac.uk)
Check your University email
The lecturer who presented the material
The lecturer who set the assignment
Module Organiser ([Dr Iain Matthews imm7@st-andrews.ac.uk](mailto:DrIainMatthews@st-andrews.ac.uk))
The Demonstrator or Module Organiser ([Dr Iain Matthews imm7@st-andrews.ac.uk](mailto:DrIainMatthews@st-andrews.ac.uk))
Module Organiser ([Dr Iain Matthews imm7@st-andrews.ac.uk](mailto:DrIainMatthews@st-andrews.ac.uk))
Module Organiser ([Dr Iain Matthews imm7@st-andrews.ac.uk](mailto:DrIainMatthews@st-andrews.ac.uk))
Module Organiser ([Dr Iain Matthews imm7@st-andrews.ac.uk](mailto:DrIainMatthews@st-andrews.ac.uk))
and the Biology Teaching Office (bioteach@st-andrews.ac.uk)
Year Coordinator
See School of Biology UG Handbook for list: [JH booklet info \(st-andrews.ac.uk\)](http://www.st-andrews.ac.uk/jhbookletinfo)
Advisor of Studies
Disability Coordinator (biodisabilities@st-andrews.ac.uk)
Advice & Support Centre
Address: 79 North Street, St Andrews
Email: theasc@st-andrews.ac.uk
Web: <https://www.standrews.ac.uk/ask-a-question/>
Tel: 01334 462020
Tel: 01334 476161
Web: <https://www.st-andrews.ac.uk/students/advice/counselling/incrisis/>

Biology Teaching Office:

We are happy to hear from you about teaching matters. The School of Biology Teaching Office is open Monday to Friday 09.00 - 13.00 and 14.00 - 17.00. School of Biology staff will respond to your emails during these hours. Our team will provide a response to you within three working days.

Biology Teaching Office (Level 2), University of St Andrews, Biomolecular Sciences Building, North Haugh, St Andrews, Fife KY16 9ST

Email: bioteach@st-andrews.ac.uk

Tel: 01334 46 3602 or 3566

BL1102: Contributing Staff

<u>Dr Iain Matthews</u> (Module Organiser)	Senior Teaching Fellow & Pro-Dean for the Faculty of Science	imm7@st-andrews.ac.uk
<u>Dr Miguel Barbosa</u>	Lecturer in Marine Biology	mb334@st-andrews.ac.uk
<u>Prof Dave Ferrier</u>	Reader in Biology and Deputy Director of the Scottish Oceans Institute	dekf@st-andrews.ac.uk
<u>Prof Andy Gardner</u>	Professor of Biology	ag243@st-andrews.ac.uk
<u>Dr Susan Gurney</u>	Associate Lecturer in Biology	smrw@st-andrews.ac.uk
<u>Prof Susan Healy</u>	Professor / Director of Centre for Biological Diversity	sdh11@st-andrews.ac.uk
<u>Dr Iain Matthews</u> (Module Organiser)	Senior Teaching Fellow & Pro- Dean for the Faculty of Science	imm7@st-andrews.ac.uk
<u>Dr Gareth Miles</u>	Reader	gbm4@st-andrews.ac.uk
<u>Dr Michael Morrissey</u>	Research Fellow	mbm5@st-andrews.ac.uk
<u>Prof Graeme Ruxton</u>	Professor	gr41@st-andrews.ac.uk
<u>Dr David Shuker</u>	Senior Lecturer in Behavioural Ecology	dms14@st-andrews.ac.uk
<u>Prof Pat Willmer</u>	Emeritus Professor	pgw@st-andrews.ac.uk

BL1102: Learning Outcomes

Students completing module BL1102 successfully should be able to:

- Understand the basic conditions required for the origins of life and have a general understanding of the process of molecular evolution
- Understand the importance of the species contained in the Kingdoms Protista and Fungi
- Understand principles on which the immune system operates, and its component parts and how they function; and basic aspects of micro-organisms that cause infection
- Understand the basics of how a human brain interprets the world and controls movement
- Understand principles governing developmental biology and evolutionary development
- Have a general understanding of animal behaviour, including instinct and learning, the evolution of social behaviour and the evolution of mating systems
- Have a general understanding of the basics of marine biology and marine mammals
- Understand the principles of ecology
- Understand the classification and evolution of the flowering plants

BL1102: Acquired Skills

Practical Skills

- Collecting animals and plants
- Field sampling methods (Botanics)
- Field sampling methods (Invertebrates)
- Field sampling methods (Vertebrates)
- Fieldwork safety awareness
- Biological drawing and photography
- Fixing and preserving specimens
- Labelling specimens and managing collections
- Measuring structures using microscopes
- Pipetting
- Purpose and practice of dissection
- Species identification (Botany)
- Species identification (Invertebrates)
- Species identification (Vertebrates)
- Using dichotomous keys
- Sustainability related practical skills

Transferable Skills

- Group discussion - participating
- VIVA Examination
- "Full" practical write-up (Intro, Methods, Results, Discussion)
- "Short" practical write-up (e.g. completed worksheet)
- Short essay (1000-2000 words)
- Critically evaluating sources/information
- Finding information from museums
- Finding literature
- Referencing
- Searching databases
- Lab safety awareness
- Calculations/equations
- Deal with outliers
- Descriptive statistics
- Distinguish different types of data
- Draw a line of best fit
- Produce graphs/figures
- Produce tables
- Use Excel
- Critiquing experimental design
- Designing experiments
- Sustainability Related Skills
- Generate class dataset
- Working in large groups
- Working in pairs/small groups

Policies

(Information in this section applies to all Biology Modules)

- The procedures and regulations followed by the School of Biology are outlined in the [University Handbook](#) and in the School of Biology UG handbook [JH booklet info \(st-andrews.ac.uk\)](#)
- All coursework associated with the module must be completed and submitted by its due date.
- Specific School regulations relating to absence reporting, penalties and rules for late submission of work, extensions for coursework, return of coursework, S-coding, Good Academic Practice and Academic Alert are stated in the School of Biology UG handbook [JH booklet info \(st-andrews.ac.uk\)](#) and students are required to carefully read these regulations.
- Students are also referred to the University Handbook, available at: <http://www.st-andrews.ac.uk/studenthandbook/>